EOS C300
Mark II

EOS C300 Mark II

Supreme 4K image quality and versatility

With the ability to record 10-bit 4:2:2 files internally at up to 410Mbps in 4K, or 10/12-bit 4:4:4 files in 2K/Full HD, with up to 15 stops of dynamic range, the EOS C300 Mark II provides footage suitable for extensive post-production work.

Instant integration into professional workflows

The C300 Mark II features Canon's XF-AVC codec integrating both 4K and 2K/Full HD footage into workflows effortless, while maintaining the highest image quality. The range features XF-AVC intra for 4K, and XF-AVC Long GOP and Proxy options for 2K/Full HD recording, both of which utilise H.264 codec, offering post production flexibility and ease of use.
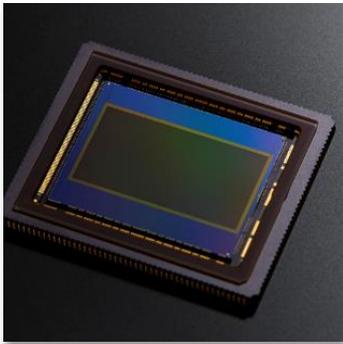
Designed for flexibility

The modular body that can be adapted to suit the needs of each shooter and filming situation, through the extensive range of compatible accessories and is also compatible with more than 90 current EF and Cinema lenses.

no one sees it like you

Canon

REDEFINE WHAT YOU THOUGHT POSSIBLE

4K / 2K

Newly developed 8.85-megapixel sensor that supports 4K (4096 x 2160(DCI)/3840 x 2160) 2K (2048 x 1080 (DCI)/HD (1920 x 1080)

XF-AVC

XF-AVC Intra is a balance between handling ease and high image quality, recording at the highest bit rate of 410 Mbps under 4K and 30p settings.

DiG!C DV5 DUAL

Two DIGIC DV5 image processors boasting a high data processing power are incorporated expressing a wide range of image expressions such as 4K movies with a high bit rate of 410 Mbps.

Slow Fast Motion

Shooting is possible at 1 fps up to a top speed of 120 fps (2K/HD), making free use of the high and low speeds.

Dual Pixel CMOS AF
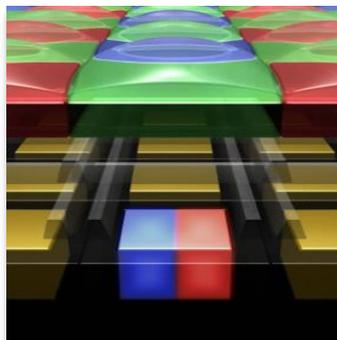
Ground-breaking AF technology that uses a CMOS sensor with a construction that combines the functions of both imaging and phase difference AF.

Audio 4ch

Capable of 4-channel input, the C300 Mark II supports LPCM 24-bit/48 kHz audio which is superior to CD sound quality.

no one sees it like you

Canon

Technical Specifications

IMAGE SENSOR	
Sensor	Super 35mm type CMOS
System	RGB primary colour filter (bayer array)
Total pixels per sensor	9.84MP
Effective pixels per sensor	Approx 8.85 megapixels when 4096 x 2160/2048 x 1080 resolution selected Approx.8.29 megapixels when 3840 x 2160 or 1920 x 1080 resolution selected
Dynamic Range	During normal shooting: 300% With Canon Log gamma: 800% With Canon Log2 Gamma 1600% (ISO 850 or above/gain 2.5 dB or more)
Horizontal Resolution	Up to 1800 TV lines or more depends 0n shooting resolution and on lens used.

LENS	
Lens mount	Canon EF Mount. EF with Cinema Lock or PL mount available (optional upgrade)
Peripheral illumination correction	YES (dependent on lens used)
ND filter	6 glass filters in camera body: 2 stops; 4 stops; 6 stops,8 stops,10 stops[1]. Operate via body, wireless control or via RC-V100 Remote Control Unit.
Focus control	Via lens, wireless control or wired remote (dependent on lens used) One shot AF with EF Lenses including Cine Servo lens range[2]. (Not available with Manual Focus, CINEMA Zoom or Prime lenses).
Iris control	Via body, grip, wireless control or wired remote. Push AI available with EF lens (Not available with CINEMA lenses) 1/2-stop, 1/3-stop or FINE control. Possible to maintain constant F-number during zoom.
Image stabilization system	Depends on lens used.

IMAGE PROCESSOR	
Type	Dual DIGIC DV 5

RECORDING	
Video storage media	CFast 2.0™ and SD card supported. Simultaneous Recording to CFast2.0 and External Device possible
Recording time	Depending on card used and resolution/ bit rate selected
Recording file format	XF-AVC (Material eXchange Format (MXF))
Recording Standard	Video Compression: MPEG-4 AVC/H.264 Audio Recording: Linear PCM (16bit/24bit- 48kHz - 4ch) File Format: XF-AVC (MXF) Bit rate: Intra 410/225/220/110Mbps, LongGOP 50Mbps Long GOP: 35 or 24 Mbps (for proxy recording on SD cards)
Recording format CFast 2.0™ Card	Intraframe recording Resolution: 4096x2160/3840x2160/2048x1080/1920x1080 Signal configuration: YCC422 10bit/(*)RGB444 (12bit/10bit) (*) Only with 2048x1080 or 1920x1080; 29.97P, 23.98P, 25.00P and 24.00P Long GOP recording Resolution: 2048x1080/1920x1080 Signal configuration: YCC422 10bit
Recording format SD Card	Movies: Long GOP recording only (*) Resolution: 2048x1080/1920x1080 Signal configuration: YCC420 8bit Photo: JPEG Resolution: 2048x1080/1920x1080 (*) Proxy recording using low bit rate
Recording frame rate	59.94 Hz: 59.94i/59.94P/29.97P/23.98P (Depending on resolution selected) 50.00Hz: 50.00i/50.00P/25.00P (Depending on resolution selected) 24.Hz: 24.00P
Slow/Fast motion	59.94Hz:59.94P 2K (2048x1080/1920x1080) 1 to 60 FPS 2K CROP (*1)(2048x1080/1920x1080) max 120 FPS 29.97P 4K (4096x2160/3840x2160) 1 - 30 FPS 2K (2048x1080/1920x1080) max 60 FPS** 2K CROP * (2048x1080/1920x1080) max 120 FPS ** 23.98P 4K (4096x2160/3840x2160 max 30 FPS 2K (2048x1080/1920x1080) max 120 FPS ** 2K CROP * (2048x1080/1920x1080) max 120 FPS** 50.00Hz 50.00P 2K (2048x1080/1920x1080) 1- 50 FPS 2K CROP * (2048x1080/1920x1080) max 100FPS ** 25.00P 4K (4096x2160/3840x2160) 1 - 25 FPS 2K (2048x1080/1920x1080) max 50 FPS ** 2K CROP * (2048x1080/1920x1080) max 100FPScz** 24.00Hz 4K (4096x2160/3840x2160) max 30 FPS 2K (2048x1080/1920x1080) max 60 FPS** 2K CROP * (2048x1080/1920x1080) max 100FPS**
Interval Record	Yes
Frame Record	YES
Pre Record (cache record)	Yes
Relay Recording	YES
Double Slot (simultaneous) Recording	YES
Scan Reverse	YES: Both / Vertical/ Horizontal /Off
HD->SD conversion	NO
Internal Data Transfer	YES. Clips can be copied from CFast2.0 to CFast2.0 card internally in Media Mode.
Photo storage media	SD Card
Still quality	2048 x 1080/1920 x 1080

Technical Specifications

SYSTEM	
LCD	
Size	4" (10.1 cm diagonal) color wide-screen LCD with 16:9 aspect ratio
Dots	Approx. 1.23 million dots (854 x RGB x 480), 100% field of view coverage
Image quality adjustments	Super High, High or Normal can be selected as the luminance adjustment. Others are same as for the viewfinder.
Adjustable	YES
Waveform Monitor	YES
Focus Assist	YES
Peaking	YES
Zebra	YES
Markers	YES

EVF	
Size	0.46" (1.18 cm on the diagonal), color organic EL display with a wide-screen 16:9 aspect ratio
Type	Organic LED
Dots	Approx. 1770,000 dots (1024 x RGB x 576)
Image quality adjustments	Adjustment of the viewfinder brightness, contrast, color, sharpness and luminance boosting (on/off) can be performed (using menu settings).
Adjustable	YES
Correction lens	+2.0 to -5.5 diopter

INPUTS/OUTPUTS	
Audio in	YES: 2x XLR input on monitor unit, 3.5mm input on Camera Body
Headphone output	YES Output impedance 50Ω or less, Reference signal output level 50Ω or less Reference signal output level -∞ to -12 dBV (with 16Ω load, volume from MIN to MAX)
Video/Audio output	MON., REC OUT terminals: BNC Jack Video[HD]: SMPTE 292, SMPTE 274 [3G]: SMPTE 424, SMPTE 425 Audio[HD]: SMPTE ST 299-1 [3G]: SMPTE ST 299-2 Output impedance 75Ω, Output signal level 0.8Vp-p
HDMI	HDMI terminal (type A) Complies with HDMI specifications. Video/Audio output
IEEE 1394 (Firewire)	NO
USB	NO
Time code	BNC jack (input/output)
Genlock	BNC jack (also serves as the SYNC OUT terminal) Signal level 1.0 Vp-p, Input impedance 10KΩ
Synch	BNC jack (also serves as the SYNC OUT terminal) Signal level 1.0 Vp-p, Input impedance 10KΩ
LCD Monitor Input/Output	VIDEO terminal Canon's proprietary specifications (special 13-pin jack) AUDIO terminal Canon's proprietary specifications (special 13-pin jack)
Component out	NO
AV terminal	NO
DC input	YES
Remote Control Terminal	2.5mm mini jack
Wireless Control Terminal	Via optional Wi-Fi adaptor
Colour Bars	EBU, SMPTE, ARIB

EXPOSURE	
Exposure Control and Metering	Manual, Push Auto Iris, Auto Iris (with compatible lenses). Metering Options (a) Standard (center-weighted metering),(b) Spotlight,(c) Backlight compensation
Exposure compensation	0.25 increments from ±0 to ±2.0.
Push Auto Iris	YES (EF and EF-S lenses. Not available with EF Cinema Lenses.)
Exposure Lock	Via Push AI Function
Auto Gain Control setting	YES
ISO Sensitivity	1 Stop increments: [100], 160(*), 200, 400, 800, 1600, 3200, 6400, 12800, 25600, [51200, 102400] [---] Displayed when ISO speed expansion is ON. (*) Displayed when ISO speed expansion is OFF. 1/3 stop increments:[100, 125], 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12800, 16000, 20000, 25600, [32000, 40000, 51200, 64000, 80000, 102400]
Gain setting	Normal: [-6dB, -3dB], -2dB(*), 0dB, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, 21dB, 24dB, 27dB, 30dB, 33dB, 36dB, 39dB, 42dB, [45dB, 48dB, 51dB 54dB] [---] Displayed when ISO speed expansion is ON. (*) Displayed when ISO speed expansion is OFF. Fine: Any value from -2dB to 24dB in 0.5dB increments can be set.

SHUTTER SPEED	
Control Modes	Off, Speed, Angle, Clear Scan, Slow
Shutter speed	59.94 Hz Off: 59.94(i/P) : 1/60/29.98P: 1/30 24.00P 1/24 Speed: 1/1 - 1/2000 Clear Scan: 59.94 Hz mode: 23.98 Hz (lowest) to 250.37 Hz 24.00 Hz mode: 24.00 Hz (lowest) to 250.37 Hz Note: The frequency will differ depending on the frame rate setting. Slow: 59.94(i/P) 1/4, 1/8, 1/15, 1/30; 29.98P 1/4, 1/8, 1/15: 24.00P 1/3, 1/6, 1/12 50.00Hz Off: 50.00(i/P) 1/50; 25.00P 1/25 Speed:1/1 - 1/2000 Clear Scan: 24.00 Hz (lowest) to 250.40 Hz Note: The frequency will differ depending on the frame rate setting. Slow: 50.00(i/P) 1/3, 1/6, 1/12, 1/25; 25.00P 1/3, 1/6, 1/12
Shutter Angle	59.94Hz/50.00Hz: 360.00, 240.00, 180.00, 120.00, 90.00, 60.00, 45.00, 30.00, 22.50, 15.00, 11.25

FOCUS SYSTEM	
AF Options	Dependent on the interchangeable lens used and User Selected Mode. Dual Pixel CMOS AF (CMOS AF), Contrast AF
AF Modes	One-Shot AF, Continuous AF and AF-Boosted MF are the available modes. All of these modes take effect when the AF/MF switch of the EF lens is at the AF setting
Face Detection AF	Yes; Face Priority or Face Only
Dual Pixel CMOS AF	Yes. Compatible with all EF Mount Lenses (Except Manual Focus Only models)

Technical Specifications

CUSTOM PICTURE	
Stored Configurations	7 presets: Canon Log 2 : C.Gamut (Cinema Gamut) Canon Log 2 : BT.2020/Canon Log 2 : DCI-P3 Canon Log 2 : BT.709 Canon Log: BT.2020 Gamut BT.709
Storage Medium	Internal or SD card
Gamma Setting Options	Canon Log 2/Canon Log/Wide DR/EOS Std.Normal 1 (STANDARD)/Normal 2 (4.0x)/Normal 3 (BT.709) Normal 4 (5.0x)
Colour Space Settings	Cinema Gamut/BT.2020 Gamut/DCI-P3 Gamut/BT.709 Gamut
Colour Matrix Settings	Neutral/Production Camera/Cinema EOS Original/Video/EOS Std./OFF
Customisable and protected settings	YES
Black Gamma	YES
Low Key Saturation	YES
Knee	YES
Sharpness	YES
Noise reduction	YES
Skin detail	YES
Selective Noise Reduction	YES
Colour matrix	YES
White Balance	YES
Colour correction	YES
Setup level	YES
Press	YES
Clip 100% IRE	YES

WHITE BALANCE	
Auto	YES
Kelvin Range	2000K to 15000K, 100K intervals, Default 5500K
Preset	Daylight/Tungsten
White Balance Shift	Yes, -9 to +9 (Daylight or Tungsten Preset selected)

BLACK BALANCE	
Black balance adjustment	YES

TIME CODE	
Countup system	Regen, RecRun, FreeRun, External, Hold (Drop frame available for NTSC Mode)
Start value setting	"00:00:00:00", Set/Reset selectable

AUDIO	
Recording	16-bit 2ch (48 kHz) linear PCM
Control	Independent limiters and auto/manual settings
Microphone attenuation	YES
Microphone level meter	YES

MISC	
Tally lamp	YES
Accessory shoe	YES (cold shoe, 3 locations: top of body, top of handle, front of handle)

ACCESSORIES	
Supplied	Monitor Unit, Handle Unit, Thumbrest, WFT Attachment, Tripod Adaptor Base, Eye Cup, CVF Cap, Shoulder Strap Battery Charger CG-10, AC Adaptor CA-A10, AC Cable, Battery Pack BP-A30, hex wrench, hexagon screw set, UN-5 Cable (X2)Lithium battery CR2025, Bracket
Optional (includes discontinued items)	Canon Battery Pack BP-A30 (included with EOS C300 Mark II)/BP-A60 Canon AC adapter CA-A10 Canon Battery Charger CG-A10 Canon Remote Controller RC-V100 Canon shoulder strap SS-1200 (provided with the EOS C300 Mark II) Canon Tripod Adapter TA-100 Canon Tripod base TB-1 Canon Shooting Brace SBR-1000 Canon Wireless transmitter WFT-E6 Canon GPS Receiver GP-E1 Canon unit cable UN-5 (provided)/UN-10 (purchased separately) Canon microphone adapter MA-400 (optional accessory) Canon rod clamp RD-1 (purchased separately)

BATTERY	
Battery Type	BP-A30 (included),BP-A60 (optional)
Input Power Supply	14.4 V DC (battery pack), 16.7 V DC (DC IN)

MISCELLANEOUS	
Dimensions	Approx. 149 x 183 x 183 mm (5.9 x 7.2 x 7.2 in) [EOS C300 Mark II + thumb rest] Approx. 190 x 183 x 187 mm (7.5 x 7.2 x 7.4 in) [EOS C300 Mark II + grip] Approx. 190 x 265 x 226 mm (7.5 x 10.4 x 8.9 in) [EOS C300 Mark II +grip+bracket+handle unit] Approx. 190 x 307 x 362 mm (7.5 x 12.1 x 12.8 in) [EOS C300 Mark II+grip+bracket+handle unit+monitor unit]
Detachable handle	YES
Operating Temperature range	Approx. 0℃ to 40℃, 85% (relative humidity) Approx. -5℃ to 45℃, 60% (relative humidity)

Disclaimers

All specifications are subject to change without notice

[1]8 and 10 Stop ND selected via expansion option in menu
[2]CN7 x 17 KAS S/E1 or P1 depending on mount

Focus, Zoom and Iris via lens drive unit.

Functions above control via RC-V100 on EF mount only
Canon is an authorised licensee of the CFast 2.0™ trademark, which may be registered in various jurisdictions
* The 2K area at the center of the 4K area is cropped and recorded. The size of the image is doubled
** depending on recording mode

Canon